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.0900 Names of outstanding mine owners, officials and operators (companies and interests concerned).

Note: Biographical material is forwarded under 7300.

4202.

Solid Fuels.

.0100 Coal, Coke, and Lignite.

01 Extent and regional location of reserves.

02 Present and potential rate of exploitation and method of mining anthracite and bituminous coal and lignite (including map).

03 Important individual fields and mines (location, ownership, production figures, capacity).

04 Conversion of coal to coke (bee-hive and by-product methods, use in blast furnaces and other uses, briquetting).

05 Consumption by various industries and utilities (distinguish anthracite from bituminous).

06 Movements (inter al routes, export and import ports).

07 Exports and imports, including amounts and countries of destination and origin.

08 Assessment of sabotage, bombing, demolition or other damages.

.0200 Other Solid Fuels.

01 Peat (location and extent of resources, processing methods and by-products, present and potential production, coal equivalent of peat produced, household and industrial uses).

02 Charcoal (availability of wood for charcoal burning, amounts produced and coal equivalent, specific uses in industry and transportation).

03 Wood used as fuel (amounts used or available, specific heating uses in industry and transportation, heating value in terms of coal).

04 Other solid fuels.

4203.

Petroleum.

.0100 General. Inclusive studies and statistics summarizing the overall petroleum situation. Analyses and data relative to individual phases of operations are essential and wherever possible are to be developed as outlined below.

.0200 Petroleum Reserves.

01 Oil reserves (location, nature, extent, and development). *include map)*

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- 4203.02 02 Reserves owned or controlled abroad (location, extent of investment, reserves controlled *include map*)
- .0300 Crude Oil Production (domestic and foreign).
- 01 Present rate of production and possibilities for expanded output.
- 02 Individual fields and wells (location, ownership, potential production, current production, etc.).
- .0400 Production of Liquid Fuels and Use of Substitutes.
- 01 Refineries. *List, with map.*
- 02 Production statistics of refined products *including octane rating* (aviation gasoline, motor fuel, kerosene, diesel oil, fuel oil, lubricating oil, etc.).
- 03 Individual refineries (location, ownership, method of operation, types of products, capacity, current production, source of power, vulnerability to sabotage and bombing).
- 08 Synthetic Oil.
- 09 Processes employed (Bergius, Hydrogenation, Fisher-Tropsch Synthesis, Low Temperature Tar, High Temperature Tar).
- 10 Types and amounts produced.
- 11 Individual plants (location, kind, method of operation of products and amount of production, capacity, source of power, vulnerability).
- 12 Expansion possibilities.
- 17 Substitute Fuels (liquid, solid, gas).
- 18 Liquid Substitutes and Blending Agents (alcohol, benzol, methanol, etc.; various types of blends).
- 19 Production volumes used for motor fuel and other purposes.
- 20 Types of blends used with percentages of petroleum, derivatives, and other constituents.
- 21 Petroleum equivalent of substitute liquid fuels produced.
- 22 Solid Substitutes (wood, charcoal, lignite).
- 23 Quantities used for motorization.
- 24 Petroleum equivalent saved.
- 25 Gas Substitutes (acetylene, compressed illuminating gas, methane, etc.).
- Quantities used for motorization.

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- 27 Petroleum equivalent.
- 32 Overall Production Figures by Types of Products (mineral oils, synthetic oils and substitutes).
- .0500 Individual Oil Types -- properties, uses, production and consumption.
 - 01 Aviation gasoline.
 - 02 Motor fuels (gasoline blends, gasolines, etc.).
 - 03 Kerosene.
 - 04 Diesel oils.
 - 05 Fuel oils (light).
 - 06 Lubricating oils.
 - 07 Bunker oils (residual fuel oils).
 - 08 Other.
- .0600 Stocks and Storage.
 - 01 Stocks on hand, by areas or districts.
 - 02 Storage installations (location, number, type of installation, ownership, size and capacity of tanks, type of product stored, warehouse storage for packaged products).
 - 03 Temporary storage depots and dumps (location, types of oil, amounts).
- .0700 Export and Import Pattern (types of products, amounts, ownership, source).
- .0800 Transportation and Distribution.
 - 01 Pipe lines (route, specifications of construction, uses, capacity, pump stations, and other installations, storage, etc., including maps).
 - 02 Railroads, roads, and waterways used in the movement of crude oil and petroleum products.
 - 03 Transportation equipment -- tank cars, tank trucks, tank vessels (number, capacity, product carried).
 - 04 Distribution and marketing facilities (location and ownership, areas served, specific installations, kind and volume of products handled, regional and local storage and tank wagon facilities provided).
 - 05 Other factors affecting distribution and marketing of petroleum products (transportation difficulties, temporary shortages, taxation, etc.).

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- 4203 .0900 National Consumption (in peace and in war).
- 01 Overall Consumption of Petroleum Products (by type of product).
- 02 Pattern of Oil Consumption by Amounts and Types of Products.
- 03 According to use (by all types of shipping, including Navy and fishing fleet; by all motor vehicles and units; for other motor and industrial uses; for household uses, etc.).
- 04 Consumption by various groups (civilians, Army, Navy, Air Forces, etc.).

- .1000 Reconnaissance and Target Photographs and Reports on:
- 01 Total or regional oil supply system (strategic and operational).
- 02 Oil fields and wells.
- 03 Refineries.
- 04 Synthetic oil plants.
- 05 Storage installations and depots.
- 06 Transportation equipment.

- .1100 Assessment of Sabotage, Bombing and Demolition Damages.

4204. Natural Gas.

- .0100 Resources Explored (regions or areas concerned and estimated reserves).
- .0200 Extent and Importance of Use.
- 01 Industrial uses (actual and potential).
- 02 Household uses (actual and potential).
- 03 Important pipe lines (location, installations, with diagram).
- .0300 Individual Companies and Operators.
- .0400 Government Participation in Development.

Note: Public utility gas plants are reported elsewhere.

4205. Metals and Metallurgy.

Note: In reporting ore and metal tonnages, care should be taken to give data which cannot be misinterpreted. Whether figures are given in terms of the raw ore broken, ore concentrates or smelter and refinery products, specific information should be included as to the actual metal content. Also define terms in which metallic content is expressed, specifying whether the reference is to the element or to a compound such as MoO_3 , V_2O_5 , TiO_2 , As_2O_3 , etc.